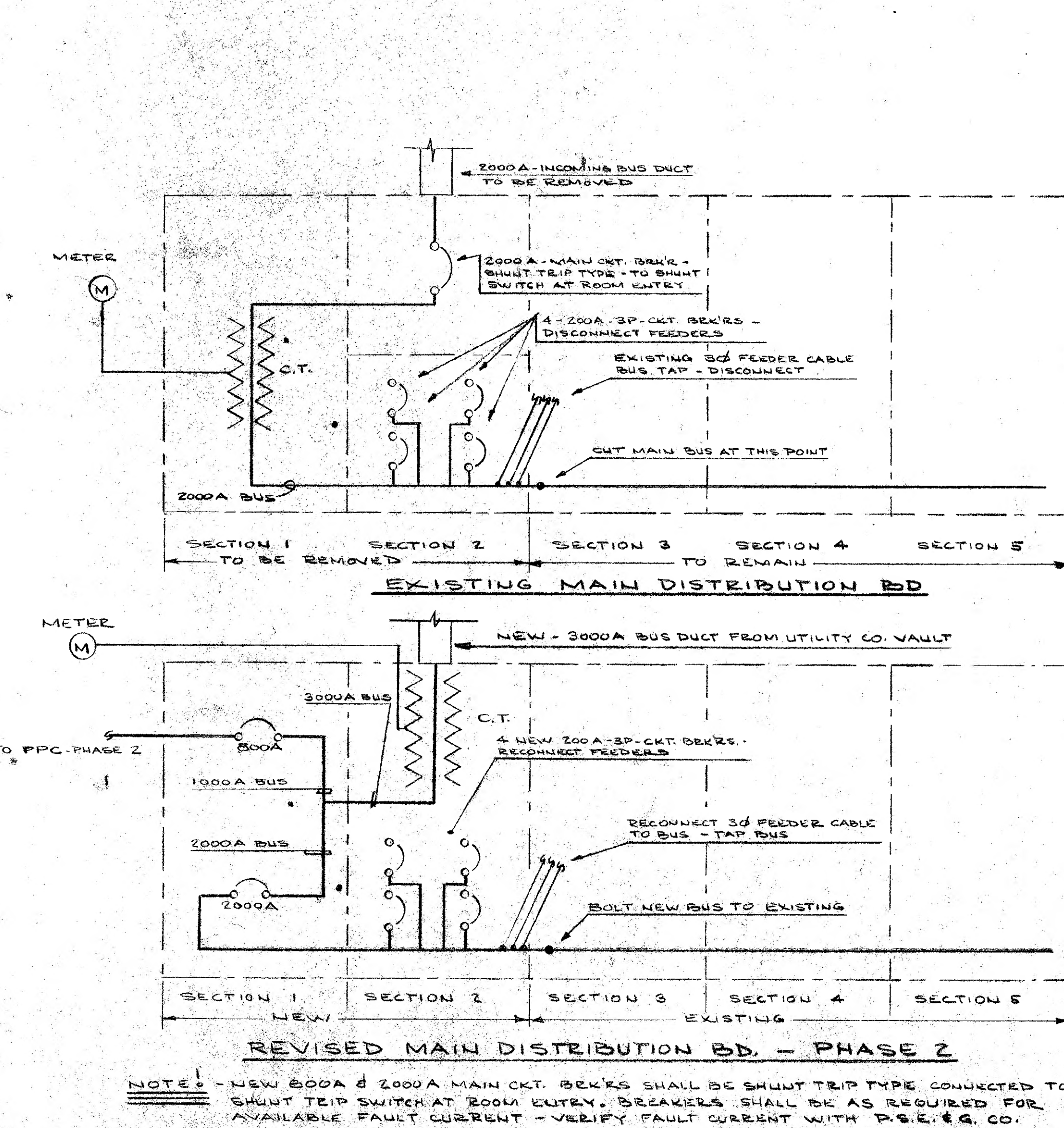
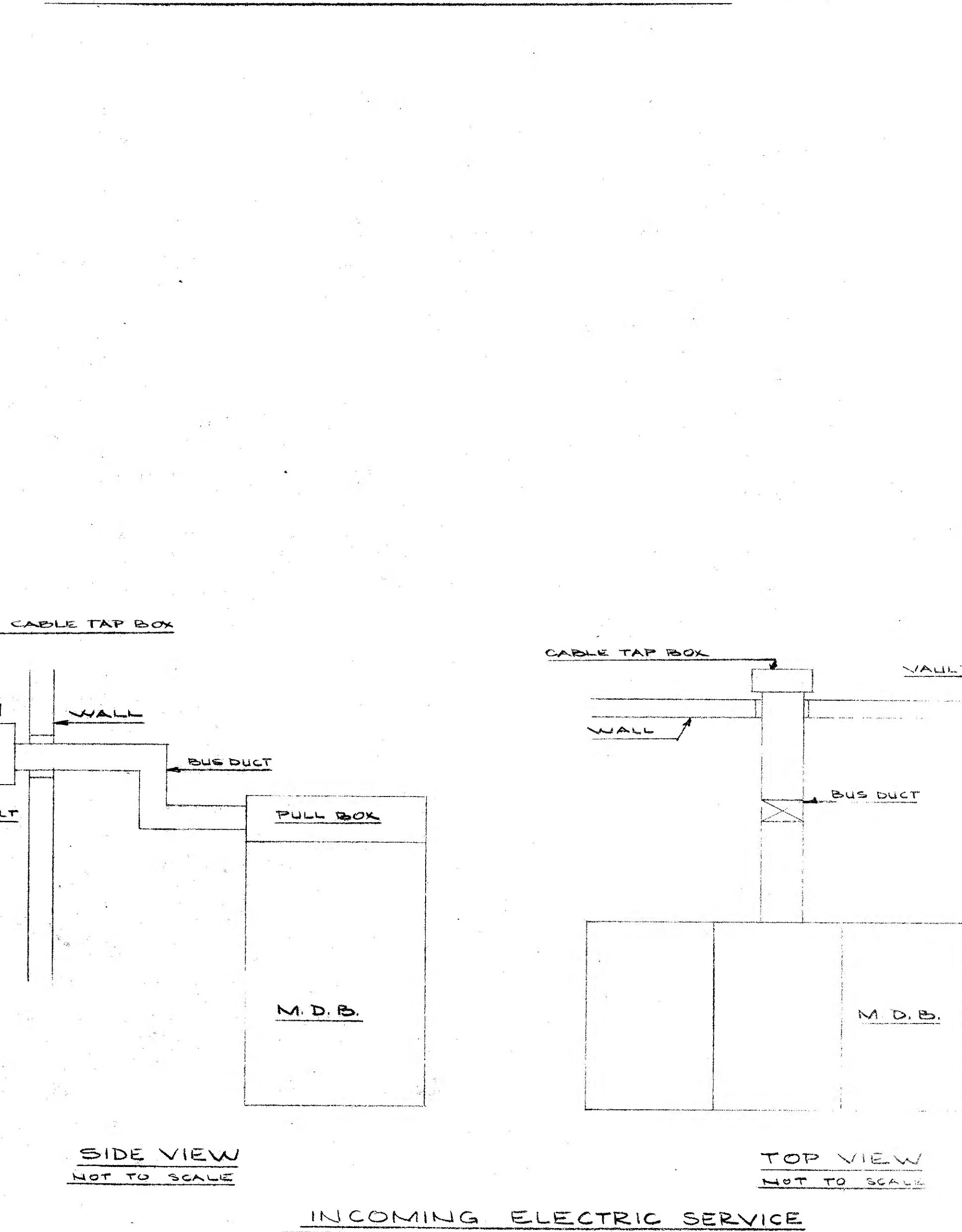


TYPE <u>00B</u> MAINS <u>60</u> AMPERES									
VOLTAGE <u>120/208V-3Ø-4W</u>									
FEEDER <u>4-#6-THW-1" C</u>									
CONNECTED LOAD <u>8,200</u> WATTS									
CIRCUIT	POLES	TRIP	ASSIGNMENT	LOAD (WATTS)	PHASE	LOAD (WATTS)	ASSIGNMENT	TRIP	POLES
1	2	30	AHU-2 - 1HP	1,900	A	-	AHU-1 - 2HP	20	3
3	2	30	AHU-3 - 1HP	1,900	B	2,500			4
5	2	30	AHU-4 - 1HP	1,900	C	-			6
7	2	30	AHU-5 - 1HP	1,900	A	-	SPACE		8
9	2	30	AHU-6 - 1HP	1,900	B	-	"		10
11	2	30	AHU-7 - 1HP	1,900	C	-	"		12
13	1	-	SPACE	-	A	-	"		14
15	1	-	"	-	B	-	"		16
17	1	-	"	-	C	-	"		18
PHASE 1									

TYPE <u>I-LINE</u> MAINS <u>900</u> AMPERES									
VOLTAGE <u>120/208V-3Ø-4W</u>									
FEEDER <u>2 SETS - 3-#400M-THW &amp; 1-#40-THW-4" C</u>									
CONNECTED LOAD <u>130,880</u> WATTS									
CIRCUIT	POLES	TRIP	ASSIGNMENT	LOAD (WATTS)	PHASE	LOAD (WATTS)	ASSIGNMENT	TRIP	POLES
1	3	40	ACCU-5, 6 & AHU-8	97,800	A	21,720	ACCU-7 & AHU-7	40	3
3	3	100	SPACE	-	B	11,360	PUL-PPB	70	3
5	3	100	SPACE	-	C	-	SPACE	100	3
7	3	100	SPACE	-	A	-			12
9	3	100	SPACE	-	B	-			14
11	3	100	SPACE	-	C	-			16
13	3	100	SPACE	-	A	-			18
15	3	100	SPACE	-	B	-			
17	3	100	SPACE	-	C	-			
PHASE 2									



TYPE <u>00B</u> MAINS <u>100</u> AMPERES									
VOLTAGE <u>120/208V-3Ø-4W</u>									
FEEDER <u>4-#8-THW-1 1/4" C</u>									
CONNECTED LOAD <u>11,300</u> WATTS									
CIRCUIT	POLES	TRIP	ASSIGNMENT	LOAD (WATTS)	PHASE	LOAD (WATTS)	ASSIGNMENT	TRIP	POLES
1	2	20	ATU-4	520	A	1,200	AHU-5 - 1/2 HP	20	2
3	1	20	ATU-5	520	B	-			4
5	1	20	ATU-6	520	C	1,900	AHU-6 - 1HP	30	2
7	1	20	ATU-7	520	A	-			6
9	1	20	ATU-8	520	B	-	SPACE		8
11	1	20	ATU-9	520	C	-	"		10
13	1	20	ATU-10	520	A	-	SPACE		12
15	1	20	ATU-11	520	B	-	"		14
17	1	20	ATU-12	520	C	-	"		16
19	1	20	ATU-13	520	A	-	"		18
21	1	20	ATU-14	520	B	-	"		20
23	1	20	ATU-15	520	C	-	"		22
PHASE 2									



- NOTES
1. Electrical Contractor shall visit site and familiarize himself with existing conditions and extent of work before submitting proposal. Failure to comply will not relieve the Contractor from performing the work as required at no additional cost.
  2. BASE BID shall be all electrical work indicated to be performed under Phase 1
  3. ADD ALTERNATE 1 shall be all electrical work indicated to be performed under Phase 2
  4. ADD ALTERNATE 2 shall be all electrical work indicated to be performed under Phase 3
  5. Under Phase 2, Public Service Electric & Gas Co. will disconnect the present service to the building from their transformer vault. New transformers will be installed by the Utility to accommodate the additional electrical load. Electrical Contractor shall remove existing 2000 ampere feeder duct and sections 1 & 2 of the existing Main Distribution Board. A new 3000 ampere feeder duct shall be furnished and installed as well as new sections 1 & 2 of the Main Distribution Board. All cable connections terminating at present in those sections of the Board and scheduled to remain shall be disconnected and reconnected to new terminations of the new sections. Basically there are connections for four, 3 phase, 200 ampere circuit breakers and one, 3 phase, 400 ampere bus tap.
  6. Electrical Contractor shall include in proposal necessary overtime that may be required for the above installation, which will be scheduled by the Owner. Note that an emergency generator is currently wired in the building to keep essential loads and egress lighting in operation
  7. Electrical Contractor shall verify and co-ordinate service change with the Utility Company and include all costs, if any, levied by the Utility Co. against the project.

- GENERAL NOTES
- a. Electrical Contractor shall visit site and familiarize himself with existing conditions and extent of work before submitting proposal. Failure to comply will not relieve the Contractor from performing the work as required at no additional cost to the Owner.
  - b. Electrical Contractor shall refer to HVAC plans and specifications to determine extent of power and control wiring to be performed by him.
  - c. Electrical Contractor shall perform all drilling, cutting, chasing, patching and refinishing as may be required to install his work.
  - d. All conduit shall be concealed wherever possible. Surface raceway shall run wherever possible along route of ducts and concealed above same. Wiremold, complete with all necessary fittings shall be used for wiring in exposed areas.
  - e. All control and protective devices on roof shall be mounted on angle iron and/or unistrut. All angle iron and/or unistrut shall be given a rust prohibitive coat of paint and an additional coat of black asphaltum.
  - f. All rigid galvanized steel conduit on roof and exposed to weather shall be given two coats of black asphaltum.
  - g. Any and all BX or interlocked armored cable terminating on roof shall be protected from rain or water exposure. No such cable shall be exposed to rain and/or water of any kind under any conditions.
  - h. All cable extending down shafts shall be provided with strain relief fittings.
  - i. All fuses to be time delay type.
  - j. New main circuit breakers shall be selected to accommodate the available fault current and shall be shunt trip type. Wire breakers to shunt trip switch at entry door of electric room.

DETAILS	
RECONSTRUCTION OF THE NEWARK PUBLIC LIBRARY MAIN BUILDING	
WASHINGTON ST., NEWARK, N.J.	
REVISIONS	
1801 RAVINE DR., FORKED RIVER, N.J.	
609/699-3392	
8017 M.	
4/5/82	AS NOTED.

REGENTHAL RUBINSTEIN, INC.  
ENGINEERING CONSULTANTS  
FANWOOD NEW JERSEY  
LICENSE NO. 13766